

Serial No.: 10/565,429
 Filing Date: January 18, 2006

Customer No.: 26,289
 Attorney's Docket No.: 2003JP317

Complete set of Claims

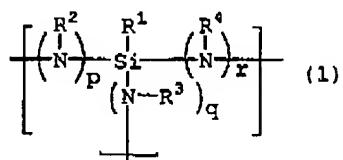
[1] (previously amended) A coating composition comprising: a polyalkylsilazane compound; an acetoxy silane compound; and an organic solvent.

[2] (original) The coating composition according to claim 1, which further comprises a pore forming agent.

[3] (original) The coating composition according to claim 2, wherein said pore forming agent is a copolymer comprising a siloxy-containing polyethylene oxide compound or a siloxy-containing polyethylene oxide compound as monomer units.

[4] (previously amended) The coating composition according to claim 1, wherein said polyalkylsilazane compound comprises repeating units represented by general formula (1):

[Chemical formula 1]



wherein R^1 represents a hydrogen atom or an alkyl group having 1 to 3 carbon atoms, provided that all of R^1 's of the whole compound do not simultaneously represent hydrogen;

R^2 to R^4 each independently represent a hydrogen atom or an alkyl group having 1 to 3 carbon atoms, provided that all of R^2 to R^4 do not simultaneously represent hydrogen; and

p , q , and r each are 0 or 1 and $0 \leq p + q + r \leq 3$.

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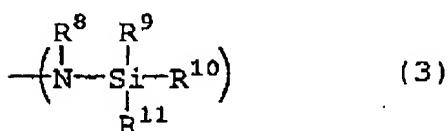
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[5] (previously amended) A siliceous material produced by coating a coating composition according to claim 1 onto a substrate or by filling a coating composition according to any one of claims 1 to 4 into a frame or a groove, and firing the coating composition.

[6] (previously amended) A semiconductor device comprising a siliceous material according to claim 5 as an intermetal dielectric.

[7] (previously amended) A process for producing a siliceous material, comprising heating a coating composition according to claim 1 at a temperature of 350°C or below for 1 to 60 min.

[8] (previously presented) The coating composition according to claim 1, wherein said polyalkylsilazane compound further contains one or both groups represented by formulae (2) and (3)



wherein R⁵ to R¹¹ each independently represent a hydrogen atom or an alkyl group having 1 to 3 carbon atoms, provided that both R⁵ and R⁶ do not simultaneously represent hydrogen and all of R⁹ to R¹¹ do not simultaneously represent hydrogen.

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[9] (new) The coating composition according to claim 1, where the acetoxy silane is selected from tetraacetoxy silane, methyltriacetoxy silane, ethyltriacetoxy silane, ethoxytriacetoxy silane, isopropoxytriacetoxy silane, n-butoxytriacetoxy silane, dimethyldiacetoxy silane, diethyldiacetoxy silane, diisopropyl diacetoxy silane, di-n-butyldiacetoxy silane, dimethoxydiacetoxy silane, diethoxyacetoxysilane, diisopropoxydiacetoxy silane, and di-n-butoxydiacetoxy silane.